P.05/13

Docket No.: 21499-00050-US

Application No.: 09/913,833

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A device for filling and reinforcing an internal tunnel in a tooth (2) from which tooth approximal caries has been removed by means of a tunnel preparation (1) and for preventing overhangs, characterized by comprising:

a closed first elongate and flexible container means (3) having one end provided with a tip or string (4) to enable insertion of said first container means (3) into an interdental space (5) adjacent the portion of said tooth (2), from which approximal caries has been removed,

said first container means (3) being prefilled or fillable with a flowable restorative material (6), which is <u>disposed</u> intended to flow into and fill said tunnel preparation (1) as soon as <u>when</u> a hole (7) has been punched into said first container means (3) for instance by means of a needle (8) brought into contact with said container means (3) through said tunnel preparation (1).

- 2. (Currently amended) A device according to claim 1, characterized in that wherein: said closed first container means (3) is prefilled to about 60 to 80 % of its volume with a flowable restorative material (6).
- (Currently amended) A device according to claim 2, characterized in that wherein:
 a second closed and flexible container means (9) is attached or attachable to the device.
- 4. (Currently amended) A device according to claim 3, characterized in that wherein: the second container means (9) is attached or attachable to the tip or string (4) of the first flexible container means (3).

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(Currently amended) A device according to claim 4, characterized in that wherein: the second container means (9) is attachable to the string (4) of the first container means (3) by means of a ring or a string (10) mounted to one end of said second container means (10), when said first container means (3) has been pulled into an interdental space (5) adjacent a tooth (2) from which approximal caries has been removed.

- 6. (Currently amended) A device according to claim 3, characterized in that wherein:
 the second container means (9) is prefilled to a predetermined thickness and resiliency
 with a medium (11) comprising at least one of such as a liquid liquid, a gas or a gel in order to
 seal a proximal tunnel opening when said second container means (9) has been drawn into said
 interdental space (5) on removing the first container means (3) from said interdental space (5)
 after said tunnel preparation (1) has been filled.
- 7. (Currently amended) A device according to claim 6, characterized in that wherein: said medium (11) is a photoluminiscencing medium enabling photocuring of the dental restorative resin (6) filled into the tunnel preparation (1) by irradiation with visible light (12).
- 8. (Currently amended) A device according to claim 6, characterized in that wherein: the second container means (9) is provided with an axially extending, flexible and laterally lighting fiber optic (11b), wherein the fiber optic is arranged to cure enabling euring, by means of lasers, plasma arc or halogen light, of a dental restorative resin (6) filled into a tunnel preparation (1) from said first container means (3).
- 9. (Currently amended) A device according to claim 6, characterized in that wherein: said second container means (9) includes a triboluminicence system, i.e. comprising luciferin (11) and a luciferase capsule (11a), wherein the triboluminicence system provides providing chemiluminescence when said container means (9) is squeezed or bent breaking said luciferase capsule (11b) and bringing both components luciferin and luciferase into contact with each other.

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- 10. (Currently amended) A device according to claim 6, eharacterized in that wherein: said second container (9) includes a combination of chemiluminescence (11,11a) and a fiber optic (11b).
- 11. (Currently amended) A device according to claim 1, characterized in that wherein:
 the first flexible container means (3) is made of photoblocking nylon, preferably of a see through orange nylon or analogue material.
- 12. (Currently amended) A device according to claim 3, characterized in that wherein: the first and the second flexible container means (3, 9) are made of transparent nylon or analogue transparent material.
- 13. (Currently amended) A device according to claim 3, characterized in that wherein: the first flexible container means (3) is substantially cylindrical and the second flexible container means (9) is cylindrical or slighty slightly conical, widening against the end facing away from the first container means (3).
- 14. (Currently amended) A device according to claim 3, characterized in that wherein: both flexible container means (3, 9) are provided with a triangular cross section and having preferably one edge provided with a longitudinal outstanding fin (13).
- 15. (Currently amended) A device according to claim 14, characterized in that wherein: the ends of the container means (3, 9) are squeeze welded to form end fins (16a, 16b) parallel to the longitudinal fin (13) of said container means (3, 9), one end fin (16b) of each container means (3, 9) being common to both container means (3, 9).
- 16. (Currently amended) A device according to claim 15, characterized in that wherein: the device comprises a number of sequential container means (I—VII), connected to each other by common end fins (16b), the end fin (16a) in the front end of said device being provided with a string (4) to facilitate insertion of said device into an interdental space (5), and

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the longitudinal fin (13) being provided with indications of the purpose of each container means (I-VII), which container means (I-VII) are intended to be pulled step by step into the interdental space (5).

- 17. (Currently amended) A device according to claim 1, characterized in that wherein:
 the opposite end of the first flexible container means (3) is laser, heat or chemically bonded to the outlet opening (18) of a cartridge (19), filled with said flowable restorative material (6) and adaptable to an applicator device (20).
- 18. (Currently amended) A device according to claim 17, characterized in that wherein: the first flexible container means (3) is in a vacuumized thin and flat condition before use.
- (Currently amended) A device according to claim 18, characterized in that wherein:
 a second closed and flexible container means (9) is attached or attachable to the device.
- 20. (Currently amended) A device according to claim 19, characterized in that wherein: the second container means (9) is provided with a string (10) at one end, which string is intended to be threaded through an interdental space (5) from one side before the string (4) of the first container means (3) is threaded into said interdental space (5) from the opposite side, whereby

the cartridge (19) or the applicator device (20) is provided with a hook (21) to which the string (10) of the second container means (9) is intended to be hooked.

21. (Currently amended) A device according to claim 19, characterized in that wherein: the second container means (9) is intended to be attached to the string (4) of the first container means (3) when said first container means (3) has been threaded into an interdental space (5).

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22. (Currently amended) A device according to claim 19, characterized in that wherein: the cartridge (19) is 100% photoblocked, or made by a see through orange photoblocked plastics.